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TO : Chief, [REDACTED] **CONFIDENTIAL** Oct 57-716

FROM : Chief, Communications Operations and Training Division 18 October 1957

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SUBJECT: Communications Gear for [REDACTED]

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1. On 25 September, during a meeting on another subject, an informal discussion was held between [REDACTED] of SR and the OC representatives regarding present day clandestine communications problems [REDACTED]

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The Office of Communications is very interested in the information given by [REDACTED] and has discussed the subject in the most recent Communications Research, Development, and Production Review Board.

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2. The above mentioned board came to the conclusion that the information given us by [REDACTED] has opened a path for communications support which we are not presently able to support to the satisfaction of the hypothetical type operation that was posed to us. In order to better staff out the problem we would like to further discuss the requirement below and possibly entice further details.

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[REDACTED]

mitter adapter TA-1 was discussed and it was not clear that this was the ultimate solution. As an additional requirement, [REDACTED] said a means of automatic transmission in miniature form would be desirable. Such a device which can be available in quantities sometime in late 1958 is the AM/UCT-1 (PAMM keyer).

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4. Both the TA-1 and PAMM keyer fall short on the requirement for very small, compact, and simple to operate hardware. Neither completely eliminate the need for training since, though they do not require knowledge of the Morse code, they still are far from automatic.

5. Our engineers believe that, for the present, they could offer very little improvement over the TA-1 through re-design or development of a new item. The same holds true for the PAMM keyer. The introduction of push button operation further reduces the insurance of successful communications and possibly would increase the size.

6. The Research, Development, and Production Review Board would like comment from the SR Division on this requirement. If a definite need is considered possible somewhere in the vicinity of the TA-1 and PAMM keyer

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DOC	3	REV DATE	2-3-81	BY	06/91
ORIG COMP	-	OPI	33	TYPE	01
ORIG CLASS	5	PAGES	2	REV CLASS	2
				AUTH:	HR 19-2

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SUBJECT: Communications Gear for [REDACTED]

a reiteration of this need in writing would provide the impetus for further research by our engineers to meet the requirement. We visualize such a requirement as being only occasional and would hence be satisfied by a very small stockpile of hardware (say a dozen each) possibly produced in our laboratory workshop. Timing would be influenced almost completely by laboratory project priorities and budgetary considerations.

7. Please consider that the above discussed hardware does not in any way alter the ever present problem of providing a suitable antenna for transmission and reception of clandestine communications. A good antenna is still a necessary asset and is hard to install without posing physical security problems. Also, not to be eliminated by the above discussed hardware is the problem of security of transmission of radio signals which is reduced only by a small amount by virtue of the faster rate of transmission provided by the PAMM keyer.

[REDACTED]
Acting

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AGENDA

Meeting No. 72

Research Development and Production Review Board

2 October 1957

Room 2035 "I" Bldg. - 1430 Hours

I. Old Business:

1. Review and Approval of the Minutes of Meeting No. 71.

II. New Business:

1. Discussion on the possibility of improvement of TA-1.
2. Engineering Division discussion on pertinent changes and progress of the R+D program.

DOC	4	REV DATE	2-3-81	BY	206191
ORIG COMP	-	CPI	33	TYPE	01
ORIG CLASS	5	PAGES	6	REV CLASS	C
JUST	22	NEXT REV	2011	AUTH:	HR 10-2

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